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IFW

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[RUSH] **MESSAGE:**

The specification submitted on 2-25-02 does not contain a paragraph referring to color drawings as required per 37 CFR 1.84 (a)(2)(iv).

Please correct

Thank You
TW

[XRUSH] **RESPONSE:**

ATTACHED IS A COPY OF THE PARAGRAPH FOR COLOR PHOTO'S WHICH IS TO BE INSERTED IN TO THE SPECIFICATION UNDER THE BRIEF DESCRIPTION

9-29-05

INITIALS: JDC

NOTE: This form will be included as part of the official USPTO record, with the Response document coded as XRUSH.

REV 10/04

[0021] Formula 6: $(M^1{}_4M^2{}_3A_3Y_2)_n$

[0022] Formula 6 represents a general formula for an embodiment of a polymer of the subject invention, as shown in Figures 11A-11F, wherein M^1 can be any metal that can sustain 3-fold rotational symmetry, wherein M^2 can be any metal that can sustain 4-fold rotational symmetry, wherein A is a trifunctional carboxylate with 3-fold rotational symmetry (allowing for geometric distortion), wherein Y is any -1 anion ("Y_2" could also be just one "Y", if Y is a -2 anion), wherein 'n' indicates a polymeric structure in three dimensions (*i.e.*, $n \geq 2$), and wherein any coordinating ligand or solvent molecule is optionally coordinated to each M.

[0023] Formula 7: $(M_3A_2)_n$

[0024] Formula 7 represents a general formula for another embodiment of a polymer of the subject invention, as shown in Figures 15A-15F, wherein M can be any metal that can sustain 4-fold rotational symmetry, wherein A is a trifunctional carboxylate with 3-fold rotational symmetry (allowing for geometric distortion), wherein 'n' indicates a polymeric structure in three dimensions (*i.e.*, $n \geq 2$), and wherein any coordinating ligand or solvent molecule is optionally coordinated to each M.

[0025] In each of the above Formulas 1-7, M is a metal preferably in its 2+ transition state. However, it is also contemplated that M can be in other transition states (such as 1+, 3+, and so forth), and structures of the subject invention can contain M in more than one transition state (*i.e.*, M(II)M(III)). For every M that is not in a 2+ transition state, there will preferably exist a counter ion to balance the charge (+ charge if < 2; - charge if > 2). The anions may, or may not, be coordinated to the metal.

SEE ATTACH. >

Brief Description of Drawings

[0026] Figures 1A-1C show cubohemioctahedron, small rhombihexahedron and small rhombidodecahedron uniform polyhedra, respectively, formed by linking vertices of squares only.

[0027] Figures 2A-2NN illustrate representative ligands for 120°.

[0028] Figures 3A-3G illustrate representative ligands for 144°.

[0029] Figure 4 shows the square nanoscale secondary building unit (nSBU), described by the general formula, $M_2(RCO_2)_4$, such as $[Cu_2(PhCOO)_4]$. Figure 4 (left) shows a ball-and-

The patent or application file contains at least one drawing executed in color. Copies of this patent or patent application publication with color drawing(s) will be provided by the Office upon request and payment of the necessary fee.